IN THE CLAIMS

Please add claims 31 through 46 as follows:

1 --31. A disk calibration and search process, comprising:

2 making a count of a number of tracks crossed when a pickup is jumped to a first

3 position and moved radially from said first position during generation of a selected number

4 of pulses;

5 determining an unit track number in dependence upon a relation between said

6 count and said selected number;

7 determining an average pitch between said tracks in dependence upon said unit

8 track number; and

9 determining a moving amount to shift the pickup between a current position

10 on the disk and a target track, in dependence upon said average pitch.

1 32. The process of claim 31, making said count while moving said pickup from a

2 track on one extremity of the disk to a track on a radially opposite extremity of the disk.

1 33. The process of claim 31, with said first position comprised of an innermost

2 track of said disk, and with said count made while said pickup is moved radially from said

3 innermost track to an outermost track of said disk.

1 34. The process of claim 31, comprised of initiating said count after detecting an

2   edge of said pulses.

35.   A disk drive, comprising:

a motor;

a pickup oriented to make a count of a number of tracks on a memory disk crossed when said motor jumps said pickup to a first position on the disk and moves said pickup radially from said first position in response to application of a selected number of pulses to said motor; and

a controller determining an unit track number in dependence upon a relation between said count and said selected number, determining an average pitch between said tracks in dependence upon said unit track number, and determining a moving amount to shift the pickup between a current position on the disk and a target track, in dependence upon said average pitch.

36.   The disk drive of claim 35, comprised of said controller making said count while said motor moves said pickup from a track on one extremity of the disk to a track on a radially opposite extremity of the disk.

1   37.   The disk drive of claim 35, with said first position comprised of an innermost

2   track of said disk, and with said controller making said count while said pickup is moving

3   radially from said innermost track to an outermost track of said disk.

1   38.   The disk drive of claim 35, comprised of said controller initiating said count

2   after detecting an edge of said pulses.

1   39.   A disk drive manufacturing process, comprising:

2   selecting a motor;

3   mounting a pickup oriented to make a count of a number of tracks on a

4   memory disk crossed when said motor jumps said pickup to a first position on the disk and

5   moves said pickup radially from said first position in response to application of a selected

6   number of pulses to said motor; and

7   making an operational connection between a controller and said motor and said

8   pickup, with said connection enabling said controller to determine a unit track number in

9   dependence upon a relation between said count and said selected number, determine an

10   average pitch between said tracks in dependence upon said unit track number, and determine

11   a moving amount to shift the pickup between a current position on the disk and a target track,

12   in dependence upon said average pitch.

1   40.   The process of claim 39, comprised of said controller making said count while

2   said motor moves said pickup from a track on one extremity of the disk to a track on a

3   radially opposite extremity of the disk.

1   41.   The process of claim 39, with controller designating said first position

2   comprised of an innermost track of said disk, and with said controller making said count

3   while said pickup is moving radially from said innermost track to an outermost track of said

4   disk.

1   42.   The process of claim 39, comprised of said controller initiating said count

2   after detecting an edge of said pulses.

1   43.   A disk calibration and search process, comprising:

2   moving a pickup radially from a track on one extremity of the disk to a track

3   on a radially opposite extremity of the disk;

4   beginning a count of pulses with an edge of a plurality of pulses generated

5   during said movement;

6   making a count of a number of tracks crossed during said movement; and

7   determining a track number in dependence upon a relation between said count

8   of said number and said count of pulses.

1   44.   The process of claim 43, with said one extremity comprised of an innermost

2   track of said disk, and with said count of said number being made while said pickup is moved

3   radially from said innermost track to an outermost track of said disk.

1   45.   A disk calibration and search process, comprising:

2   moving a pickup to a location on the disk and reading from said disk a current

3   position of the pickup on the disk while said pickup is at said location;

4   establishing an initialized value by determining a number of tracks lying

5   between said location and a designation of a target track;

6   characterizing relativity of a movement of said pickup from said location to

7   said target track as one of a longer jump and a shorter jump;

8   when said movement is characterized as a shorter jump, moving said pickup

9   in conformance to said shorter jump and making a determination of whether said pickup has

10 reached said target track;

11   when said movement is characterized as a longer jump, establishing an

12 adjusted value when said target track corresponds to an addition of one to said initialized

13 value, and after moving said pickup in correspondence to a pulse value obtained by dividing

14 said number of tracks by said adjusted value, making said determination of whether said

15 pickup has reached said target track;

16   when said movement is characterized as a longer jump and said target track

17 does not correspond to said addition, and after moving said pickup in correspondence to a

18 pulse value obtained by dividing said number of tracks by said initialized value, making said

19 determination of whether said pickup has reached said target track; and

20   establishing said initialized value again when said determination indicates that

21 said pickup has not reached said target track after said moving of said pickup.

1   46.   The process of again establishing said initialized value as set forth in 45,

2   comprised of:

3   adding one to said designation of said target track;

4   reading from said disk a current position of the pickup on the disk; and

5   setting said initialized value to indicate a number of tracks lying between said

6   current position and said designation of said target track.--